APPLICATION No.: 10/779,970

### **REMARKS**

#### Status of the Claims

Claims 1-34, 37-39 and 42-44 are currently pending in the application. No claim amendments have been made and therefore, no new matter has been added.

### **Allowable Subject Matter**

Applicant thanks the Examiner for acknowledging that claims 4 and 6-7 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

# Rejections Under 35 U.S.C. § 102(b)

The standard under 35 U.S.C. §102 is one of strict identity. "Under 35 U.S.C. §102, every limitation of a claim must identically appear in a single prior art reference for it to anticipate the claim." *Getcher v. Davidson*, 116 F.3d 1454, 1457 (Fed. Cir. 1997). "Every element of the claimed invention must be literally present, arranged as in the claim." *Richardson v. Suzuki Motor Col., Ltd.*, 868 F.2d 1226, 1236 (Fed. Cir. 1989). Applicant respectfully submits that the cited references fail to anticipate the present invention for at least the following reasons.

### <u>Udelhofen</u>

Claim 37 is rejected under 35 U.S.C. § 102(b) as being anticipated by Udelhofen (U.S. Patent No. 4,231,759, hereinafter "Udeflhofen"). See page 2 of the Office Action.

Claim 37 presently recites a method for reducing combustion chamber deposits and/or intake valve deposits in an engine comprising providing a fuel containing an additive comprising a composition selected from the group consisting of hydrocarbyl succinic anhydrides reacted with amines, Mannich adducts derived from hydrocarbyl-

substituted phenols reacted with formaldehydes and amines, ethylene-propylene

copolymers grafted with ethylenically unsaturated carboxylic groups reacted with

amines, copolymers of unsaturated acids and polyolefins reacted with amines, and acid

or ester functionalized hydrocarbon polymers reacted with amines, wherein the amines

comprise treated aliphatic or aromatic amines. The claim also provides particular

features of the treated amines.

Udelhofen discloses reaction products obtained from the Mannich condensation

of high molecular weight alkyl-substituted hydroxy aromatic compounds, amines and

aldehydes (see Abstract), yet fails to teach or suggest treated amines. Accordingly,

Udelhofen fails to anticipate the present invention. Applicant respectfully requests

reconsideration and withdrawal of the rejection.

Daly

Claims 37-38 are rejected under 35 U.S.C. § 102(b) as being anticipated by Daly

(U.S. Patent No. 5,873,917, hereinafter "Daly"). See pages 2-3 of the Office Action. As

discussed above, claim 37 recites a method for reducing combustion chamber deposits

and/or intake valve deposits comprising the claimed composition. The claim provides

particular features of the compositions, including treated aliphatic or aromatic amines

and specific aspects thereof.

Daly discloses a nitrogen-containing dispersant, including Mannich dispersants.

which can be formed by reacting an alkyl-substituted hydroxyaromatic compound,

formaldehyde, and an amine. See col. 7, lines 47-48 and col. 8, lines 1-19. Yet Dalv

fails to teach or suggest treated amines, as presently recited. Accordingly, Daly fails to

-3-

REPLY TO OFFICE ACTION ATTORNEY DOCKET No.: 0013.0014

**APPLICATION No.: 10/779,970** 

anticipate the present invention. Applicants respectfully request reconsideration and withdrawal of the rejection.

# Rejections Under 35 U.S.C. § 103(a)

The initial burden of factually supporting any prima facie conclusion of obviousness rests with the Examiner. If the Examiner does not produce a prima facie case, Applicants are under no obligation to submit evidence of nonobviousness. See MPEP 2142. The key to supporting any rejection under 35 U.S.C. §103 is the clear articulation of the reason(s) why the claimed invention would have been obvious. See Examination Guidelines for Determining Obviousness Under 35 U.S.C. 103 in View of the Supreme Court Decision in KSR International Co. v. Teleflex Inc., 72 FR 57526, 57528 (Oct. 10, 2007)(hereinafter "KSR Guidelines"). "Rejections on obviousness cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." Id. (quoting KSR International Co. v. Teleflex Inc., 550 U.S. \_\_\_\_, 127 S. Ct. 1727, 82 U.S.P.Q.2d 1385 (2007)). The KSR Guidelines further provide a number of rationales that may be articulated to support a legal conclusion of obviousness. See KSR Guidelines at 57529. Applicant respectfully submits that no prima facie case of obviousness exists for at least the following reasons.

#### Kamakura

Claims 1-3, 5, 8-9, 11-12, 14-16, 18-21 and 42-44 are rejected under 35 U.S.C. § 102(b) as being anticipated by Kamakura (JP 1-95194, hereinafter "Kamakura"). See pages 3-4 of the Office Action. Applicant hereby relies on the excepted English translation of *Kamakura* for the arguments set forth herein.

REPLY TO OFFICE ACTION

ATTORNEY DOCKET No.: 0013.0014

APPLICATION No.: 10/779.970

The Examiner has rejected the claims under §102(b) on page 3 of the Office

Action; however, the Examiner has acknowledged on page 4 that Kamakura does not

teach the claimed dispersant within the claimed range. Therefore, Applicants have

regarded this rejection as an obviousness rejection and not a novelty rejection.

The Examiner has admitted that "the difference between Kamakura and the

currently presented claims is that Kamakura does not disclose a dispersant with a

molecular weight within the claimed range." See id. at page 4. The Examiner has

instead argued that Kamakura allegedly discloses "a polyamine reactantg [sic] with a

molecular weight of 300 to 1100, and a polybuenyl succinic anhydride with a molecular

weight of 500 to 2000. The molecular weight of the reaction product will therefore range

from approximately 800 to 3100, overlapping the claimed ranges." Id.

Yet contrary to the Examiner's position and rationale, one skilled in the art would

know, that the precise molecular weight of a reaction product cannot be predicted by

simply adding the molecular weights of its reactants. A skilled person would know that

a final reaction product (including its molecular weight) depends on many factors,

including thermodynamics, reaction kinetics, transition states, reaction mechanisms,

etc. Therefore, Kamakura does not teach or suggest a dispersant with a molecular

weight overlapping the presently claimed ranges, as the Examiner contends.

Accordingly, Applicant submits that the Examiner has not only admitted that

Kamakura does not teach or suggest the presently claimed dispersant, but has further

failed to establish a prima facie case of obviousness at least because there is no

articulated reasoning with some rational underpinning to support the conclusion that

Kamakura teaches a dispersant with molecular weights overlapping the claimed ranges.

-5-

ATTORNEY DOCKET No.: 0013.0014

**APPLICATION No.: 10/779,970** 

Applicant therefore respectfully requests reconsideration and withdrawal of the

rejection.

Bardasz in view of Kamakura

Claims 24-28, 30, 32-33 and 39 are rejected under 35 U.S.C. § 103(a) as being

unpatentable over Bardasz (U.S. Patent No. 5,595,964, hereinafter "Bardasz") in view of

Kamakura. See pages 4-5 of the Office Action.

The Examiner has admitted that Bardasz does not disclose the specific

dispersant recited in the present claims. See id. at page 5. The Examiner has instead

relied on Kamakura for supplying this missing teaching. Id.

As discussed above, the Examiner has admitted that Kamakura does not teach

or suggest the claimed dispersant. See id. at page 4. Additionally, and as discussed

above, no prima facie case of obviousness exists. In particular, there is no articulated

reasoning with some rational underpinning to support the Examiner's conclusion that

Kamakura teaches a dispersant with molecular weights overlapping the claimed ranges.

Accordingly, Kamakura fails to overcome the deficiencies of Bardasz, and neither

reference teaches or suggests the presently claimed dispersant. The present invention

is therefore not obvious in light of the combination of references. Applicant respectfully

requests reconsideration and withdrawal of the rejection.

Robson in view of Kamakura

Claims 10, 17, 22, 24-30 and 32-34 are rejected under 35 U.S.C. § 103(a) as

being unpatentable over Robson et al. (U.S. Patent No. 6,060,437, hereinafter

"Robson") in view of Kamakura. See pages 5-6 of the Office Action.

-6-

The Examiner has admitted that Robson does not disclose the specific

dispersant recited in the present claims, but has instead relied on Kamakura for

supplying this missing teaching. See id. at page 5. But as discussed above, the

Examiner has admitted that Kamakura does not teach or suggest the presently claimed

dispersant. See id. at page 4.

Moreover and as discussed above, no prima facie case of obviousness exists at

least because there is no articulated reasoning with some rational underpinning to

support the Examiner's conclusion that Kamakura teaches a dispersant with molecular

weights overlapping the claimed ranges. Accordingly, Kamakura fails to overcome the

deficiency in Robson, and neither reference teaches or suggests the presently claimed

dispersant. The present invention is therefore not obvious in light of the combination of

references. Applicant respectfully requests reconsideration and withdrawal of the

rejection.

Russo in view of Kamakura

Claims 13 and 23 rejected under 35 U.S.C. § 103(a) as being unpatentable over

Russo et al. (U.S. Patent No. 5,286,264, hereinafter "Russo") in view of Kamakura. See

page 6 of the Office Action.

The Examiner has admitted that Russo does not disclose the specific dispersant

recited in the present claims, but has instead relied on Kamakura for supplying this

missing teaching. Id. Yet as noted above, the Examiner has admitted that Kamakura

fails to teach or suggest the presently claimed dispersant. See id. at page 4.

Furthermore and as discussed above, no prima facie case of obviousness exists

at least because there is no articulated reasoning with some rational underpinning to

-7-

weights overlapping the claimed ranges. Accordingly, Kamakura fails to overcome the

deficiency in Russo, and neither reference teaches or suggests the presently claimed

dispersant. The present invention is therefore not obvious in light of the combination of

references. Applicant respectfully requests reconsideration and withdrawal of the

rejection.

Srinivasan in view of Kamakura

Claims 24 and 30-33 are rejected under 35 U.S.C. § 103(a) as being

unpatentable over Srinivasan et al. (U.S. Patent No. 5,571,445, hereinafter "Srinivasan")

in view of Kamakura. See pages 6-7 of the Office Action.

The Examiner has admitted that Srinivasan does not disclose the specific

succinimide recited in the present claims, but has instead relied on Kamakura for

supplying this missing teaching. See id. at page 5. But as noted above, the Examiner

has admitted that Kamakura fails to teach or suggest the presently claimed dispersant.

See id. at page 4.

Further and as discussed above, no prima facie case of obviousness exists at

least because there is no articulated reasoning with some rational underpinning to

support the Examiner's conclusion that Kamakura teaches a dispersant with molecular

weights overlapping the claimed ranges. Accordingly, Kamakura fails to overcome the

deficiency in Srinivasan, and neither reference teaches or suggests the presently

claimed dispersant. The present invention is therefore not obvious in light of the

combination of references. Applicant respectfully requests reconsideration and

withdrawal of the rejection.

-8-

REPLY TO OFFICE ACTION

ATTORNEY DOCKET No.: 0013.0014 APPLICATION No.: 10/779,970

# Conclusion

In view of the foregoing remarks, Applicant respectfully requests reconsideration of this application and the timely allowance of the pending claims. This is believed to be a complete and proper response to the Examiner's Office Action.

Please grant any extensions of time required to enter this response and charge any additional required fees to our deposit account 50-2961.

Respectfully submitted,

Dated: January 5, 2009

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